A 7. A mover exerts a force on a piano. The piano exerts a force back. Together, these forces are known as a(n)
a. action/reaction force pair
b. friction/gravity force pair
c. contact force/inertia pair
d. balanced/unbalanced force pair

A 8. Centripetal force keeps an object moving in a circle. This force points
a. toward the center of the circle
b. toward the outer edge of the circle
c. to the right of the center of the circle
d. away from the circle in all directions

A 9. A bowling ball rolls down the lane and hits some pins before rolling off the lane. What happens to the momentum of the ball as it hits the pins?
a. Some of the ball's momentum is transferred to the pins.
b. All of the ball's momentum is transferred to the pins.
c. None of the ball's momentum is transferred to the pins.
d. The pins stop the ball from rolling farther.

A 10. Conservation of momentum occurs only when there are
a. no outside forces
b. balanced and unbalanced force pairs
c. gravity and friction
d. mass and inertia